

**BY ORDER OF THE COMMANDER
552D AIR CONTROL WING**



**AIR FORCE INSTRUCTION 11-301
AIR COMBAT COMMAND Supplement**

**552D AIR CONTROL WING
Supplement**

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Flying Operations

**AIRCREW FLIGHT EQUIPMENT (AFE)
PROGRAM**

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This supplement implements Air Force Policy Directive (AFPD) 11-3, *Life Support*, and amplifies policies and procedures contained in AFI 11-301V1, *Aircrew Flight Equipment (AFE) Program*. This supplement provides specific guidance for 552d Air Control Wing (552 ACW) AFE operations. Failure to comply with the publication is punishable as a violation of Article 92, of the Uniform Code of Military Justice. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional chain of command. This supplement is directive and applies to the 552 ACW and subordinate units. This supplement does not apply to Air Reserve or Air Guard units unless noted otherwise. This supplement may not be supplemented or further implemented/extended. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

SUMMARY OF CHANGES

This is a major revision and must be reviewed entirely. Seasonal clothing requirements and responsibilities have been revised. Boots, jackets (leather) and undergarments requirements have been clarified. E-3B/C/G AFE configuration has been added. Personnel Survival Kit (PSK) contents have been updated. Requirement for AFE personnel on temporary duty (TDY) less than seven days has been removed. Aircrew training scheduling procedures have been clarified.

2. Responsibilities.

2.10.1. The operations group commander or equivalent will appoint a rated officer to serve as the group Flight Equipment Officer (FEO) (AFE Flight Commander). An AFE Senior Noncommissioned Officer (NCO) (or civil service or contractor equivalent) will serve as the group AFE Superintendent (AFES) to assist the FEO/Flight Commander in the management of the wing AFE Program. These individuals and manpower positions will be assigned and organizationally aligned to the 552 Operations Support Squadron (OSS)/OSL, which is a single stand-alone Flight, as well as all other AFE (or equivalent) functions, personnel, and manpower positions to include all military, civil service, and contractor equivalent will be assigned and organizationally aligned to the 552 OSS/OSL (AFE Flight). The group FEO and the AFE superintendent are responsible to the operations group commander, through the 552 OSS/CC, for the management of the wing/group AFE program to include manpower, training, rotations of AFE personnel, and budget.

2.10.13.3.1. **(Added)** Tinker Air Force Base (AFB) normally encounters cold weather conditions from 1 November through 31 March. The Aircraft Commander will determine the appropriate seasonal clothing requirements IAW this paragraph based upon actual climate conditions and E-3 mission profile. Aircraft Commanders shall brief seasonal clothing requirements, and aircrew members are responsible for carrying/wearing appropriate personal clothing and equipment while conducting flight operations. During cold weather operations (14 – 32 degrees Fahrenheit (F)/-10 – 0 (zero) Celsius (C)), the minimum seasonal clothing worn or carried will be: Jacket Flying Winter (Cold Weather Unit (CWU)-45/P); Underwear, Thermal Knit (CWU-43/P and CWU-44/P); Gloves, Intermediate Cold Weather Flyers (HAU-15/P), or the Leather Flyers Shell gloves with wool inserts. **NOTE:** The Leather Flyers Shell gloves are not authorized for use during engine start or in flight. A black wool or Airman Battle Uniform style green fleece watch cap, Flyer's Extreme Cold Weather Hood, or B-9B Flyer's Cap shall be worn or carried.

2.10.13.3.2. **(Deleted)**

2.10.13.3.3. **(Deleted)**

2.10.13.3.3.1. **(Deleted)**

2.10.13.3.3.2. **(Deleted)**

2.10.13.3.3.3. **(Deleted)**

2.10.13.3.3.4. **(Deleted)**

2.10.13.3.3.5. **(Deleted)**

2.10.13.3.4. **(Added)** Belleville 600 and 700 series insulated flight boots with winter-weight socks will be the ideal cold weather flight boot, unless more specific guidance is released. Mukluks, Sorel Premium, vapor barrier boots, or equivalent shall be carried. Positions other than Pilot/Co-pilot may wear the winter exposure boots, in which case the flight boots need not be carried.

2.10.13.3.5. **(Added)** The Wiggy Walk-Around® Sleeping Bag is the primary garment for body core protection. AFE will pre-position the garment aboard E-3 aircraft in the J-compartment prior to deployments and TDYs to areas experiencing extreme cold conditions (as above). The suits are vacuum sealed and shall not be opened except in a survival situation. One suit will be available for each aircrew member. If unavailable, the CWU-64/P Cold Weather Coveralls or the Cold Weather Parka combined with the CWU-18/P Extreme Cold Weather Trousers is secondary. If the Cold Weather Trousers are not available, the Wet Weather Trousers with liners installed may be authorized for substitution by the Squadron Commander.

2.10.13.3.6. **(Deleted)**

2.10.13.3.7. **(Added)** Foreign-national aircrew are authorized to wear flight clothing issued IAW their governing military instructions and regulations.

2.10.13.3.8. **(Added)** Flights conducted over remote locations experiencing Extreme Cold conditions (less than 14F/-10C), require additional survival clothing to the Cold Weather seasonal clothing (e.g. Alaska typically from 1 October - 15 April).

2.10.13.4.1. **(Added)** Allowance Standard (AS) 016 defines climate zones based upon the 80th percent Equivalent Chill Temperature (ECT), which is similar to wind chill temperature. Cool is defined as an ECT of 33 – 50F (0 – 10C), Cold 14 – 32F (-10 – 0C), and Extreme Cold less than 14F (-10C).

2.10.18.1.1. **(Added)** Wear of flight gloves will be IAW AFI 11-2E-3V3, *E-3 Operations Procedures*.

2.10.20.1. **(Added)** “Readily available” is defined as within arm reach at the aircrew member’s primary duty station.

2.10.23.1. **(Deleted)**

2.11.4.1. **(Added)** For electronic Technical Orders (TO), 552 OSS/OSL will maintain a primary repository from which all TO access devices will be updated.

2.12.3.2. **(Added)** The AFE Quality Assurance (QA) trend analysis program is defined as a method to detect positive and negative trends and problem areas. The program will inform the FEO, AFES and supervisors of these problems and increase attention to specific areas when required. Any identifiable positive and negative trends will be noted and briefed to technicians monthly.

2.12.7.3. **(Added)** The AFE Flight Chief or QA representative will review and ensure all messages pertinent to AFE operations are disseminated to the AFE Flight. The QA representative will maintain a log with the following information:

2.12.7.3.1. **(Added)** Message Number (date/month/year), if available.

2.12.7.3.2. **(Added)** Title of Message.

2.12.7.3.3. **(Added)** Message log number.

2.17.1. **(Added)** Jacket, Flying Summer (CWU-36/P) or Winter (CWU-45/P), shall be worn or carried on all flights. The A-2 Leather Jacket may be worn on non-combat missions, provided one of the above jackets is carried and utilized in the event of emergencies involving fire or an increased potential of fire. Wet Weather Parka and Trousers are optional.

2.17.1.1. **(Added)** Only cotton or Nomex® undergarments will be worn under the flight suit during flight operations. Under Armor® or like material is not authorized. Undergarments with screen-printed or paint-based graphics are not authorized.

2.18.3.1. **(Added)** Only aircraft maintenance personnel will remove and install the 20-man life rafts and survival kits/accessory containers (nomenclature differs by TO).

3. AFE Program Management.

3.3.4.2. **(Added)** The AFE Logistics NCO is the focal point for obtaining required AFE and supplies.

3.3.4.3. **(Added)** The Noncommissioned Officer in Charge (NCOIC) or designated section representatives will request supplies on locally developed spreadsheet. The AFE Logistics NCO will review requests weekly and (when funds are available) place items on order.

3.3.4.4. **(Added)** NCOICs will ensure item(s) awaiting turn-in are properly tagged and will notify the AFE Logistics NCO. Condemned items will be stored in the Condemned Equipment Staging Area, centrally located in building 255, room 138.

3.7.2.1.2. **(Added)** Aircrew survival equipment screening or acceptance inspections will be accomplished IAW appropriate TOs and E-3 QA checklists.

3.7.2.1.3. **(Added)** Designated quality control inspectors will ensure each technician's work is sampled as equally as possible to enable a true and fair trend analysis.

3.8.1.1. **(Added)** AFE Composite Tool Kits (CTK) will be marked and controlled (to include lost tool procedures) IAW AFI 21-101, *Aircraft And Equipment Maintenance Management*. Locally established flight-line tool procedures will include using a chit system as prescribed in AFI 21-101.

3.8.4.1. **(Added)** CTK inventories will be documented on the Combat Air Force (CAF) Form 140, *CTK Inventory and Control Log*.

3.8.4.2. **(Added)** To prevent contamination, CTK tools are to be used exclusively on AFE.

- 3.8.4.3. **(Added)** Notify the CTK program manager of any unserviceable tools. Unserviceable tools will be annotated on the AF Form 3126, *General Purpose* and removed from service immediately.
- 3.9.3.1. **(Added)** Supervisors will ensure subordinates review TO changes and sign the technical order familiarization log within five duty days of posted change. All technicians on leave or TDY will review changes on the first duty day after return to duty.
- 3.14.1.1. **(Added)** Safety Data Sheets (SDS) will be located in the work section and will be clearly marked.
- 3.14.2.1. **(Added)** For newly assigned personnel, section supervisors will ensure initial job safety training is completed prior to exposing them to hazards of the workplace.
- 3.19.2. **(Added)** Aircrew Life Support Maintenance System (ALSMS) is obsolete, therefore, the 552 OSS AFE will utilize Flight Equipment Records Management System (FERMS). Data back-ups will be maintained on a different media or drive from the primary database.

5. AFE Continuation Training (AFECT).

- 5.5.1.1. **(Added)** Aircrew will monitor their AFECT requirements and ensure squadrons schedule them for required training. Class schedules and squadron quota allocations are available on the 552 OSS/OSL SharePoint page. Exchanging allocations between squadrons is encouraged to facilitate training requirements. Notify 552 OSS/OSL of allocation exchanges to assist in tracking quota utilization.

7. Air Combat Command (ACC) and ACC-Gained Units Aircraft Installed, Guardian Angel and Pre-Positioned AFE Requirements.

- 7.7.6.1.1. **(Added)** When aircraft are projected to be off-station for more than one week (7 days) or with multiple aircraft, Operations Group (OG) subordinate squadrons will ensure AFE personnel are available at the TDY location, or request AFE personnel for TDY through 552 OSS/OSL FEO or AFES to perform flight equipment inventories and/or inspections as required. If aircraft are projected to be off-station for more than 30 days, two AFE personnel, to include one Quality Control Inspector, are required for TDY.
- 7.7.6.1.2. **(Added)** Qualified AFE personnel, if available, will conduct a mission initiation inventory of pre-positioned AFE prior to each flight and annotate the AFTO Form 46.
- 7.7.7.1. **(Added)** For all deployments, oxygen equipment on E-3s will be serviceable for at least 14 days and all flotation equipment will be serviceable for the duration of the deployment. For deployments of unknown duration, every effort will be made to maximize all AFE inspection times.

8. Deployment and Contingency Operations.

8.6.1.1. **(Added)** Upon issue, aircrew will inventory D-1 bag contents and sign to take accountability for all Aircrew Chemical Defense Equipment (ACDE) assets in their possession.

8.6.1.2. **(Added)** All ACDE not individually hand carried will be bulk- shipped in individual bags to the area of responsibility (AOR) as part of the squadron's support equipment. Tariff sized assets will be tracked and controlled in FERMS or follow-on tracking system if implemented.

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Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 11-3, *Life Support*, 24 September 2013

AFMAN 33-363, *Management of Records*, 1 March 2008

AFI 11-2E-3V3, *E-3 Operations Procedures*, 2 March 2016

AFI 21-101, *Aircraft and Equipment Maintenance Management*, 21 May 2015

Air Force Tactics Techniques and Procedures (AFTTP) 3-2.26, *Multi-Service Procedures for Survival, Evasion and Recovery*, 11 September 2012

Prescribed Forms

None

Adopted Forms

AFTO Form 46, *Pre-positioned Aircrew Flight Equipment*

AF Form 847, *Recommendation for Change of Publication*

AF Form 3126, *General Purpose*

AFTO Form 46, *Prepositioned Aircrew Flight Equipment*

CAF Form 140, *CTK Inventory and Control Log*

Abbreviations and Acronyms

ACC—Air Combat Command

ACDE—Aircrew Chemical Defense Ensemble

ACW—Air Control Wing

AFB—Air Force Base

AFE—Aircrew Flight Equipment

AFECT—Aircrew Flight Equipment Continuation Training

AFES—Aircrew Flight Equipment Superintendent

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFPD—Air Force Policy Directive

AFRIMS—Air Force Records Information Management System

ALSMS—Aircrew Life Support Maintenance System

AFTTP—Air Force Tactics Techniques and Procedures

AOR—Area of Responsibility

AS—Allowance Standard

C—Celsius

CAF—Combat Air Force

CTK—Composite Tool Kit

CWU—Cold Weather Unit

ECT—Equivalent Chill Temperature

F—Fahrenheit

FEO—Flight Equipment Officer

FERMS—Flight Equipment Records Management System

HHR—Hand Held Radio

IAW—In Accordance With

NCO—Noncommissioned Officer

NCOIC—Noncommissioned Officer in Charge

OCONUS—Overseas Continental United States

OG—Operations Group

OPR—Office of Primary Responsibility

OSS—Operations Support Squadron

PSK—Personnel Survival Kit

QA—Quality Assurance

RDS—Records Disposition Schedule

SDS—Safety Data Sheet

TDY—Temporary Duty

TO—Technical Order

Attachment 4 (Added)

E-3 AWACS AFE CONFIGURATION

A4.1. (Added) A PSK will be installed aboard the E-3 IAW specific AOR reporting instructions. PSKs will be loaded when missions fly OCONUS. The PSK will contain the items in Table A4.1.

Table A4.1. Personnel Survival Kit Content

PSK Item	Qty
Air Force Tactics Techniques and Procedures (AFTTP) 3-2.26, <i>Multi-Service Procedures for Survival, Evasion and Recovery</i>	1
Compass	1
Snare Wire, 25 ft	1
Fishing Kit	1
Signal Mirror	1
Magnesium Bar, Fire Starter	1
Garbage Bag, Small	4
Nylon Cord, 550lb	1
Camo Compact	2
Iodine Tablets	1 bt
PUR Sip Straw	1
Combat Survivor Evador Locator Hand Held Radio w/ 2 Batteries	1
Match Container w/ 20 Matches	1
GPS, Garmin Etrex w/ 2 AA Batteries	1
Phoenix Firefly w/ 9-Volt Battery	1
Infrared Chemlight	4
Glint / Glow Tape	4
Leatherman Tool	1
Poncho	1